UNCLASSIFIED



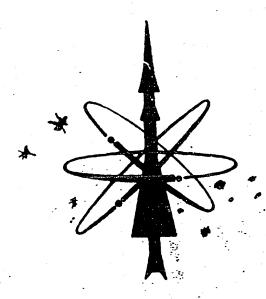
JUPITER (SM - 78)

MISSILE WEAPON SYSTEM

TRAINING PLAN

I MAY 1961

(REVISED 15 FEB 1 962)



DECLASSIFIED EFFECTIVE 28 June 1 PER ATTACHED HO ATC/TTOA LETTER 28 June 1988, MSgt Riggs, 1 July

SUPERSEDES JUPITER TRAINING PLAN NR II

31 OCTOBER 1960 PREPARED BY

SHEPPARD TECHNICAL TRAINING CENTER
AIR TRAINING COMMAND

SHEPPARD AIR FORCE BASE, TEXAS

DOWNGRADED AT 12 YEAR INTERVALS; NOT AUTOMATICALLY TESTASSIFIES, DOD DIN 5200.10

OF 118 CTS

H=1057



JUPITER MISSILE FACT SHEET

	Long	Short.
	Range	! Range
1. TRAJECTORY:		
Range	2847.6 km.	555.6 km.
	(1537.6 n.mi.)*	(300 n.mi.)
Altitude	651.2 km.	151.5 km.
	(410.6 mi.)	(94.1 mi.)
2. CPE	1500 m.	Less than 1500 m.
3. PAYLOAD (Warhead and Adaption Kit)	1575 £16¢	1575 £16#
4. DIMENSIONS:		
. Length	60'	60'
Diameter	105"	105"
5. THRUST (Sea Level)	150,000 #	150,000 #
-6. WEIGHTS:		
Total Missile (dry)	10,715 #	10,715 #
Nose Cone	2 617 0	2,617 #
LOX	67 645 #	67,645 E
Fuel (RP-1)	30,209 #	30.209 E
Missile at Ignition	168,304 #**	108,804 #**
Missile at Liftoff	108,231 €	108,231 0
7. TIME: (Seconds)		
Total	1016.9	486.9
Maximum Dynamic Pressure (Ascent)	64	64
Cut-off	157.8	123.7
Separation (Thrust Unit)	161.8	127.7
Vernier Cut-off (Av.)	173.8	139.7
Separation (Nose Cone)	339.3	305.2
Zenith	550	265.88
Reentry (100 kilometers assumed)	950.5	371.5
Maximum Dynamic Pressure (Descent)	980	440
Impact	1016.9	486.9
8. SPEED: (Mach)		
Cut-of E	13.04	6.33
Reentry	15.45	6.25
Impact	0.49	0.49
9. ACCELERATION, MAX.	13.69g .	5.2g
10. DECELERATION, MAX.	44.0g	12.08
11. WARHEADS	Nuclear	Nuclear
12. FUZING	Preximity	& Impact
13. GUIDANCE SYSTEM		Inertial

⁻ Based on firing due West (maximum possible range under most adverse conditions) - Figure includes other materials such as lubricant oils and coolants.

Maria payr a co The above data have been taken from colculations based on assumed parameters for Block L and Block If missies. 20 - 20 mg 20 mg

This document supersedes and replaces JUPITER Hissile Fact Sheet dtd 1 Aug 1959. State Copy 59 of 150 copies

15 December 1959





JUPITER MISSILE FACT SHEET

PUELS

•	LOX (99.5%)	RF-1*
MOLECULAR WEIGHT	32.0	165-190/
PREEZING POINT	-361.8°F	Av54.50p
BOILING POINT	-297.4°F	365-525°F
DENSITY (gr/cc at 65°F)	1.142**	0.801-0.803
COLOR	Light Blue	Colorless to very pale yellow
ODOR	None	Typical Petroleum
TOXICITY:		
Inhalation	None	Mild
Contact	None	Hild
CORROSIVENESS	Non-corrosive	Very Mild
EXPLOSIVE LIMIT IN AIR	Non-explosive	
HANDLING HAZARD	H1gh	Low
COMMERCIAL AVAILABILITY	Plentiful	Plentiful



^{* --} RP-1 is a kerosene-type fuel consisting primarily of aliphatic hydrocarbons.

^{** -} Density computed at boiling point (-297.4°F).



OPERATIONS CONCEPT

1. OPERATIONAL OBJECTIVES

Operational objectives for the Jupiter missile will include a lyminute reaction (countdown) time, the capability of maintaining the entire force in a T-15 minute readiness condition over an indefinite period of time, and the capability of salvo-launching the entire force. (S)

2. OPERATIONAL CHARACTERISTICS

The Jupiter Missile Squadron programmed for Turkey is equipped with 15 missiles deployed at five launch positions of three emplacements each. Each emplacement contains one missile relinecessary GSE to fire the missile. All three missiles at a launch position will be controlled through and fired from one launch control trailer. (S)

3. SQUADRON ACTIVATION AND DEPLOYMENT

The Jupiter Squadron programmed for deployment to Turkey will be manned initially by USAF personnel. This unit is identified in USAF Programming Documents as the 866th Technical Training Squadron. Upon deployment to Turkey the unit will be redesignated the 7231st Technical Training Group, composed of a Headquarters Unit, a Technical Training Squadron, a Maintenance Squadron, a Support Squadron and a Dispensary. As USAF personnel in these organizations are replaced by TAF personnel, the U.S. contingent will be reduced to only those personnel required to perform continuing warhead maintenance, custody and related support functions. (S)



TAB F

DEPLOYMENT SCHEDULE

Peploy. School

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